

CLASSIFICATION

Approved For Release 2000/09/14 : CIA-RDP86-01019R000200020035-4

MEMORANDUM FOR THE RECORD

DATE

FILE NUMBER

SUBJECT

PSD Federal Installation Survey Checklist

STATINTL.

[REDACTED] needs to fill in * areas and attach addendum sheets he has prepared but can't yet release to me.

STATINTL2.

[REDACTED] should contact us in next few days to let us know that he is ready for George Williams' visit.

3. I also have an attached MFK of 1 March 67 which gives us a good idea of discharges etc. although I understand from Dick that everything is questionable.

NOTE:

PSD HAS A PRINTING FACILITY IN THE HEADQUARTERS BUILDING (7TH FLOOR) THAT NEEDS TO BE INCLUDED AT THE TIME OF MR WILLIAMS' INSPECTION/SURVEY.

OFFICE AND TITLE

SIGNATURE

JTO

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Office Memorandum • UNITED STATES GOVERNMENT

TO : Chief, Real Estate & Construction Division, OL DATE: 1 March 1967

FROM : Chief, Printing Services Division, OL

SUBJECT: Chemical Discharge into Sewer System at the
New Printing Building at Headquarters

1. Following your request for information on the amount of chemicals that will be discharged into the sewer system by the new printing facility at Langley, I have had the following information developed:

a. From the Charles T. Main report, the amount of water (processed, domestic and air conditioning) consumed is estimated to be 400 gallons per minute.

b. The amount of chemicals mixed daily will be discharged into the sewer daily, i.e., input=output.

c. The gallons of all chemicals mixed per month is 14,895 gallons. Based on an average of 22 working days per month, 677 gallons will be used per day. At 8 hours per day, 85 gallons will be used per hour and 1.41 gallons per minute.

d. The ratio of water to mixed chemicals is 400:1.41 gallons per minute.

2. The photographic chemicals considered here are ordinary commercial photographic chemicals and their makeup is 6.2 to 8.7 (alkali to acid ratio). The following photographic chemicals are used:

D-76 Developer
D-76 Replenisher
PS-469 Developer
DK-50 Developer
DK-50 Replenisher
30380 Developer
30380 Replenisher
Duomat Developer
Stopomat
Fixomat
D-72 Developer

Photostat Fixer
Stop Bath
Econofix
D-76S Developer
D-76S Replenisher
D-16 Developer
D-16 Replenisher
Reproolith A
Reproolith B
Superlith A
Superlith B

3-1-67

2	C/DES	Seen
4	D3/DES	Seen
1	EO/DES	MP 3/1/67
	C/ACQ	
4	C/CE	
3	C/UE	12/3/67

lyp

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SUBJECT: Chemical Discharge into Sewer System at the
New Printing Building at Headquarters

Negative Photostat Replenisher
Positive Photostat
Nitric Acid (61.4 percent pure but diluted 10:1 before
use and discharge with other chemicals
at ratio of 400:1.41)

3. It is to be noted that the sewage discharged from the
printing plant is mixed with the sewage from the main headquarters
building, thus further reducing chemical strengths prior to
entering the Fairfax County sewerage system. Perhaps your office
can calculate a final ratio of water to chemicals as the sewage
enters the Fairfax County system. Also the same chemicals in
approximately the same quantities and kinds are presently flow-
ing into the sewer system from our plant located at [REDACTED]

STATINTL [REDACTED]

STATINTL

4. If additional information is needed please contact [REDACTED]
[REDACTED] x3221, of my office.

STATINTL [REDACTED]

[REDACTED] STATINTL

Distribution:

Orig - Addressee
1 - OL/PSD (Official)

STATINTL OL/PSD [REDACTED] jem/3221 (1 Mar 67)

JJH✓

C-38

February 13, 1967

Mr. Sidney Sappington
General Services Administration
Room 5312
F Street between 18th and 19th Streets
Washington, D.C. 20025

C.I.A. PRINTING PLANT
Project No. C-38

Confirming our telephone conversation, we were directed to connect the sanitary sewer from the Printing Plant to the existing sanitary line located to the northeast of the site. This was originally stated in the report prepared by the office of Charles T. Main, and after confirmation, was included in our "Design Criteria" dated January 28, 1965. Copies of these pages are enclosed for your review.

The estimated water usage for the plant was 400 GPM in the original Charles T. Main report. When verification of this was requested, C.I.A. agreed to review the matter and to establish water requirements. This was stated in the memorandum of the meeting, a copy of which is enclosed. On March 5, 1965, we were notified verbally that C.I.A. had established the requirements to be 600 GPM.

Since the bulk of the sanitary sewer load is from process water usage, our sewer design was based upon a maximum flow of 600 GPM. At 2% grade, an 8" sewer would be just adequate; but due to the uncertainty of the process load, we elected to use a 10" main.

Please call if you have any other questions pertaining to this matter.

HENRY ADAMS, INC.

J.J. Hickoy, Vice President

Enc. Approved For Release 2000/09/14 : CIA-RDP86-01019R000200020035-4

Estimated water usage will be as follows:

process 340 GPM

domestic 50 GPM

air conditioning 10 GPM

400 GPM

GSA to check this
quantity and inform
us. (H)

6. Sanitary sewerage. - Connection to the existing sanitary line located to the northeast of the site.

7. Steam and chilled water lines. - Included is excavation, placing of steam ^{and?} in chilled water lines with returns, all in Ric-Will and backfilled.

Conduit

BUILDING

1. Foundations. - On the basis of boring data supplied by C. I. A., it is felt possible to use spread footings to carry the building described on Dwg. 2280-3-R10 including the provision for the future addition of one floor designed for 100 pounds per square foot live load.

Two future
floors.
Provide
structural
only, no M&E
for future.
(H)

2. Construction. - Our estimate is based on reinforced concrete flat slab construction. The roof deck of the initial structure is considered to be designed as a future

PRELIMINARY

Mechanical and Electrical Engineers

January 20, 1968

DESIGN CRITERIA

FOR

CENTRAL INTELLIGENCE AGENCY

PRINTING PLANT

3. MECHANICAL SYSTEMS

A. Air Conditioning, Heating and Ventilating:

1. The entire building will be air conditioned except for such spaces as toilet rooms, store rooms, and mechanical equipment rooms, which will be heated and ventilated. Airhandling units will be located in equipment room on lower level. Exhaust fans will be on the roof.
2. A dual duct air conditioning system will be used. Maximum air velocity in ducts will be 2,000 F.P.M., and supply fans will be Class II.
3. All spaces will be designed for the conditions listed in the attached schedule.
4. Return air will be provided where possible but will be minimal due to high exhaust requirements and the need for pressurization of the building.
5. All equipment will be mounted on vibration isolators.
6. All supply and exhaust systems will be designed to prevent sound transmission into critical spaces. Ducts will be internally lined or provided with sound attenuating units as necessary. Walls and floor slabs surrounding equipment must be suitable for isolating equipment room noise from adjacent areas.
7. In general, a dual duct mixing box will be provided in each room. Generally, the box will be mounted at the ceiling. In rooms having windows, the box will be located beneath the window if space is available.
8. Each room will be provided with individual temperature control, except that several small rooms of similar size and function may be on the one zone.
9. Cooling coils in air handling units will be supplied with chilled water from the Power House, thus eliminating the need for a refrigeration machine, cooling tower, and pumps.

10. Preheat and reheat coils in air handling units will be supplied with hot water from instantaneous heaters. Water pump will be arranged to operate continuously in the winter to eliminate danger of coil freeze-up. Water temperature will vary inversely with outdoor temperature. Steam supply to instantaneous heaters will be 12 psig maximum.
11. Steam humidifiers will be installed in the air handling units to maintain relative humidity at 40% in the winter. For special areas requiring higher relative humidity with close control, steam humidifiers will be installed in supply ducts.
12. High efficiency air filters (95%) will be provided equal to American Air Filter Dri-Pak with a Rollocmatic prefilter.
13. Hot water heating elements will be provided for non-air conditioned areas. Unit heaters will be provided in Truck Dock.
14. Air handling units will be field-erected with sound and thermal insulated panels.
15. Hot water heating pumps and expansion tank will be provided.
16. Exhaust systems will be adequate for removal of objectionable fumes and excessive heat.
17. Electrical sub-station and Mechanical Equipment Rooms will be ventilated by an exhaust fan controlled by a thermostat to prevent excessive ambient temperature. Make-up air from outdoors will be delivered to rooms.
18. Fire dampers with access doors will be provided in supply, and exhaust ducts where required.

B. Plumbing:

1. Cold water piping will be copper in small sizes and galvanized steel in larger.
2. Hot water piping will be copper throughout.
3. Domestic and process hot water will be supplied by a storage heater in Mechanical Room. A standby unit and recirculating piping and pump will be provided.
4. A central filtered water system will be provided for photographic operations. Equipment will be in Mechanical Room.
5. Wall-hung water closets, urinals and lavatories will be provided.

6. Wall mounted drinking water coolers will be on each floor.
7. Storm water piping within building will be galvanized.
8. Sanitary and vent stacks within building and piping buried below floor will be extra heavy cast iron. Branch drains to areas using concentrated acids will be Duriron or Pyrex glass pipe. Branch drains to other areas will be galvanized steel. Acid drains will discharge to a dilution tank before draining to sewer.
9. Compressed air will be piped throughout the building from a duplex compressor and dryer located in Mechanical Room. An air intake filter and exhaust silencer will be provided.
10. Bottled propane gas will be provided for the Engraving Department.
11. Foundation drains will be provided around the entire perimeter of the building.

C. Utilities:

1. Steam condensate return, and chilled water will be piped underground from the Power House to this project. Pressure reducing stations will be provided to reduce steam pressure as required.
2. Low pressure condensate will be collected in a receiver. Medium and high pressure condensate will be carried through a condensate cooler and a flash tank to the receiver. Duplex condensate return pumps will pump all condensate from receiver to Power House. Receiver, cooler, flash tank and pumps will be located in Mechanical Room.
3. Water will be provided from a 12" main at the southwest corner of the building. Relocation of the existing main around the new building will be provided by C.S.A. under another contract.
4. Storm water will be connected to a 48" sewer main which discharges thru a headwall. Existing main and headwall will be relocated to clear new building.
5. Sanitary sewer will be connected to a 10" sewer northeast of the building.

D. Fire Protection:

1. A detection system will be provided. See electrical section for details.
2. Carbon dioxide extinguishers will be provided in recessed cabinets throughout the building.

MEMO Approved For Release 2000/09/14 : CIA-RDP86-01019R000200020085-4

February 22, 1965

Project: C.I.A. PRINTING PLANT - C-38

Date: February 18, 1965

Subject: Meeting at office of Chatelain, Gauger & Nolan

Present: Mr. Hart, Mr. Kiblinger, Mr. Harney, Mr. Atwood, Mr. Stover,
Mr. Hickey, Mr. Bradley, Mr. Weisman

1. Construction budget must be maintained at \$1,500,000.00. Will have to delete items if necessary to reduce estimate.
2. C.I.A. to furnish information on chemical distribution system.
3. C.I.A. will have to revise location of services because of changes in partitions. Will furnish this information a week to ten days, after receiving preliminary drawings.
4. Agreed to moving Chemical Mixing and Photo Supply to west. Will remain oriented in same position.
5. Half a column bay will be added south of column line K on lower level to provide necessary room for mechanical - electrical equipment and corridor for bringing equipment into building.
6. Telephone and electrical rooms will be located along west exterior wall between columns J and L on Lower Level.
7. An arcaway will be provided at east wall of mechanical equipment room for air conditioning louvers and for a door to get equipment into building.
8. Press vault will be constructed of reinforced concrete. Slab will be installed at 10 ft. height to permit ducts to run above.
9. Security bars will be required at all openings to the exteriors.
10. Press Vault to be air conditioned.
11. Agreed to location of duct risers.

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12. Building operates two shifts. Third on occasion. Second shift will operate at approximately 30% of capacity.

13. C.I.A. will furnish occupancy figures.

14. C.I.A. will furnish exhaust requirements. Capacity of exhaust in CFM. Whether a fan is required or if it is on the equipment.

15. Equipment is used for periods of operation as stated in the electrical data sheets.

16. C.I.A. to clarify electrical requirements for equipment.

17. Where hoods are noted on drawings it will be necessary to provide fans.

18. Tentative visit to present plant set up for Tuesday, March 2, 1965.

19. Entire building water supply to be filtered.

20. Hot water temperature 140°F. Return at 130°F.

21. C.I.A. to send set of special specifications.

22. Lunchroom to have vending equipment only. CGN to furnish information on this equipment.

23. H. A. drawings to show horizontal location of outlets and, piping diagrammatically. Height above floor to be given.

24. Mr. Stover said the 12" water main has a pressure of 80 psig and is sized for 1,000 gpm.

25. CGN to make a survey of surface drainage requirements in paved areas.

→ 26. C.I.A. to establish water requirements.

27. No work required of H. A. for the freight elevator other than the power supply.

28. Compressed air system will be designed for highest pressure required at equipment. C.I.A. will provide pressure regulating valves at the equipment.

29. There are no steam requirements for equipment.

30. CGN to obtain NBS data on air filters.
31. Sprinklers are required in the Solvent Storage Room only.
32. G.S.A. requirements are to be followed for fire hoses.
33. Bottled propane gas system will be provided by C.I.A.
34. CGN will provide fire extinguisher cabinets.
35. Structural drawings are not available at this time.

WILLIAM J. WEISMAN

cc: Chatelain, Gauger and Nolan - Mr. Charles Stever



COMMONWEALTH OF VIRGINIA

COUNTY OF FAIRFAX

FAIRFAX, VIRGINIA 22030

BOARD OF COUNTY SUPERVISORS

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DEPARTMENT OF PUBLIC WORKS
DIVISION OF SANITATION

February 15, 1967

MP

Mr. John J. Province, Chief,
Buildings Operation Division
General Services Administration
Region 3
Washington, D.C. 20407

Re: Sewerage Service
CIA - McLean (3POM)

Dear Sir:

The County has about completed its review on the pumping station serving the CIA Headquarters Building, McLean, Virginia, and will be in a position to make a recommendation regarding the additional service required for the printing facilities at this site.

In order that we may complete this study it is necessary that we be furnished an analysis of the waste discharge to be expected for the new facility so that we may ascertain that such discharge meets the standards of the County ordinance and those of the contract between the County of Fairfax and the District of Columbia.

Very truly yours,

Harry L. Hale
Harry L. Hale
Director

HLH:xb

cc: County Executive
Director of Public Works

